

In The Claims:

1. (currently amended) A method of dynamically redeploying services in a computing network, the method comprising ~~steps of~~:

receiving a redeployment trigger for a selected service;

determining one or more network locations where the selected service has been deployed from its original location at an origin server;

programmatically removing the selected service from the network locations and the origin server; and

programmatically replacing the selected service at the network locations and the origin server.

2. (original) The method according to claim 1, wherein the redeployment trigger comprises a redeployment request from the origin server.

3. (currently amended) The method according to claim 1, further comprising: ~~comprising the step of~~

sending the redeployment trigger when the selected service is to be revised.

4. (currently amended) The method according to claim 1, further comprising ~~the steps of~~:
receiving client requests for the selected service;
serving the received requests from the network locations prior to receiving the redeployment trigger; and

serving the received requests using the replaced service after ~~the~~ programmatically removing the selected service and programmatically replacing ~~steps~~ the selected service.

5. (currently amended) The method according to claim 1, further comprising: ~~comprising the steps of~~

unpublishing the selected service after receiving the redeployment trigger, until completion of ~~the~~ programmatically removing the selected service and programmatically replacing ~~steps~~ the selected service, and then republishing the selected service thereafter.

6. (currently amended) The method according to claim 2, further comprising: ~~comprising~~
~~the step of~~

sending a subsequent redeployment request to each of the network locations, responsive to
receiving the redeployment request from the origin server.

7. (currently amended) The method according to claim 6, wherein ~~the~~ programmatically
removing the selected service step further comprises ~~the steps of~~:

receiving the subsequent redeployment request at a selected one of the network locations;
programmatically shutting down the selected service at the selected one, responsive to
receiving the subsequent redeployment request; and

programmatically removing executable code which implements the selected service from a
run-time environment of the selected one, subsequent to the programmatically shutting down.

8. (currently amended) The method according to claim 6, wherein ~~the~~ programmatically
replacing the selected service step further comprises: ~~comprising the steps of~~:

issuing a deployment request for the selected service from a selected one of the network
locations;

receiving a response message at the selected one of the network locations, the response
message containing a replacement for the selected service; and

deploying the replacement for the selected service at the selected one of the network
locations.

9. (original) The method according to claim 8, wherein the deployment request comprises a
service description of the selected service encoded in a standardized service description notation.

10. (original) The method according to claim 9, wherein the service description comprises
an interface definition of a dynamic deployment service and an implementation definition of the
dynamic deployment service.

11. (original) The method according to claim 10, wherein the dynamic deployment service resides on the origin server.

12. (original) The method according to claim 11, wherein the issued deployment request comprises a SOAP ("Simple Object Access Protocol") request.

13. (original) The method according to claim 11, wherein the issued deployment request comprises an XML ("Extensible Markup Language") Protocol request.

14. (original) The method according to claim 11, wherein the issued deployment request identifies the selected service.

15. (original) The method according to claim 11, wherein the issued deployment request provides information about run-time conditions on the selected one of the network locations.

16. (original) The method according to claim 8, wherein the replacement comprises executable code.

17. (original) The method according to claim 16, wherein the executable code is automatically adapted to the run-time conditions on the selected one of the network locations.

18. (original) A system for dynamically redeploying services in a computing network, comprising:

means for receiving a redeployment trigger for a selected service;

means for determining one or more network locations where the selected service has been deployed from its original location at an origin server;

means for programmatically removing the selected service from the network locations and the origin server; and

means for programmatically replacing the selected service at the network locations and the origin server..

19. (currently amended) A computer program product for dynamically redeploying services in a computing network, the computer program product embodied on one or more computer-readable media and comprising:

computer-readable program code configured to receive ~~means for receiving~~ a redeployment trigger for a selected service;

computer-readable program code configured to determine ~~means for means for determining~~ one or more network locations where the selected service has been deployed from its original location at an origin server;

computer-readable program code configured to ~~means for means for~~ programmatically remove ~~removing~~ the selected service from the network locations and the origin server; and

computer-readable program code configured to ~~means for means for~~ programmatically replace ~~replacing~~ the selected service at the network locations and the origin server.

20. (new) The system according to Claim 18 wherein the redeployment trigger comprises a redeployment request from the origin server.

21. (new) The computer program product according to Claim 19 wherein the redeployment trigger comprises a redeployment request from the origin server.

22. (new) The system according to Claim 18 further comprising:
means for sending the redeployment trigger when the selected service is to be revised.

23. (new) The computer program product according to claim 19 further comprising:
computer-readable program code configured to send the redeployment trigger when the selected service is to be revised.